

Supplementary file 5: Characteristics of included papers

Reference	Country	Type of item	Focus	Method of study or type of paper	Data collection	Patient and /or carer outcomes
Baillie, 2015 [47]	UK	Published report	Evaluation of Barbara's Story	Qualitative	Written responses and focus groups	Patient satisfaction, patient safety
Baldwin, 2004 [62]	UK	Published paper	RCT of mental health liaison team	Quantitative	Validated tools	Depression, cognitive impairment, referrals
Banks, 2014 [39]	UK	Published paper	Evaluation of dementia champion training programme	Evaluation	Questionnaires of trainee knowledge and confidence in dementia, qualitative analysis of trainee reports	Impact of intervention on PLWD
Bray, 2015 [48]	UK	Published paper	The use of bay nursing and activity with PLWD in hospital	Description of the use of bay nursing and activities co-ordinators	Dementia care mapping, Patient experience questionnaires	Patient satisfaction
Brooker, 2014 [49]	UK	Published report	Evaluation of Royal College of Nursing development training programme	Evaluation report	Online survey, site evaluation (including locally determined methods such as dementia care mapping,	Patient satisfaction, carer engagement, reduced distress

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					incident reporting and patient satisfaction survey)	
Dowding, 2016 [42]	UK	Published paper	Development of pain management tool for PLWD in hospitals	Ethnographic study	Interviews, non-participant observation, medical notes review, documentary analysis	The identification and management of pain
Duffin, 2013 [53]	UK	Published paper	Description of interventions to improve care for PLWD in hospitals	Discussion paper	n/a	Patient satisfaction, patient safety
Edvardsson, 2012 [50]	Sweden	Published paper	Understanding the psychosocial climate of a ward	Qualitative	Observation	Patient satisfaction
Elliot, 2011 [59]	UK	Published paper	Description of role of Dementia Nurse Specialist	Discussion paper	n/a	Patient experience, patient safety, needs assessments, patient involvement in decision-making
Ellison, 2014 [40]	UK	Published report	Evaluation of Dementia Champions and	Evaluation	Interviews, staff survey	Patient experience, assessment of

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			Dementia Nurse Consultants			needs, reduced distress, reduced behaviours that challenge
Enns, 2014 [63]	Canada	Published paper	Quality improvement trial to reduce the use of physical restraints in hospital	Step wedged trial	Medical notes review	Use of restraints
Galvin, 2010 [10]	USA	Published paper	Evaluation of dementia awareness training programme	Pre-, post-, and delayed post test	Questionnaires of staff knowledge and confidence in dementia, interviews with trainees	Patient experience,
Goldberg, 2014 [45]	UK	Published paper	Patient experience and care on a Medical and Mental Health Unit compared with care on general wards	Qualitative findings from RCT	Non-participant observation (structured (dementia care mapping) and unstructured)	Patient experience, reduced distress, reduced behaviours that challenge, supporting patient choice (walking about the ward, food outside of mealtimes)

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Goldberg, 2013 [58]	UK	Published paper	Patient outcomes on a Medical and Mental Health Unit compared with general wards	Quantitative findings from RCT	Interviews, medical notes review, used of validated tools, non-participant observation (dementia care mapping)	Days spent at home, health status outcomes, behavioural and psychological symptoms, physical disability, cognitive impairment, carer strain, carer psychological wellbeing, carer satisfaction, patient mood and engagement
Gonski, 2012 [43]	Australia	Published paper	Outcomes of PLWD treated on a behavioural unit in a hospital	Retrospective review of medical records	Medical notes review, interviews with staff and carers	Carer satisfaction, Patient health care outcomes, behaviours that challenge, mediation, falls
Harwood, 2010 [61]	UK	Unpublished report	Development of Medical and Mental Health Unit	Discussion paper	n/a	Patient experience, patient orientation to

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						time, supporting patient abilities, patient safety, supporting patient choice (walking about the ward), patient referrals, behaviours that challenge, medication review, carer satisfaction, carer involvement
Luxford, 2015 [57]	Australia	Published Paper	Clinician-carer communication tool	Survey	Survey with staff and carers	Acceptability and perceived benefits for patients
Moyles, 2011 [56]	Australia	Published paper	Best practice, the use of 'specials'	Qualitative Interviews	Interviews with staff	Patient experience
Nichols, 2002 [41]	USA	Published paper	The development of a specialist dementia care unit	Discussion paper	n/a	Improved communication with carers, improved patient experience

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Rosler, 2012 [54]	Germany	Published paper	Treatment of PLWD with hip fractures on specialist ward compared with general ward	Matched pair analysis	Validated scales	Functional status, use of antipsychotic medication, length of stay
Scerri, 2015 [46]	Malta	Published paper	Person centred care in hospital wards	Appreciative Inquiry / Qualitative interviews	Interviews	Family carer satisfaction, patient experience
Schneider, 2010 [60]	UK	Published report	The role of health care assistants in caring for people living with dementia	Ethnographic study	Participant observations, Interviews	Patient experience
Spencer, 2013 [55]	UK	Published paper	Family carer perceptions of care on Medical and Mental Health Unit compared with general wards	Qualitative findings	Interviews with family carers	Carer satisfaction, carer perception of care
Upton, 2012 [44]	UK	Published report	Multi-component bundle of evidence-based interventions	Qualitative and quantitative findings	Interviews, survey, medical records	Ward moves, infections, weight, catheter use, falls, mobility, place of discharge, use of antipsychotics, patient and carer satisfaction

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Waller, 2015 [15]	UK	Published paper	Dementia friendly environmental adaptations in healthcare settings	Summary of findings of evaluations	Pre and post audit and locally determined data collection (observations, incident forms and falls data, medication review, interviews)	Behaviour that challenges, falls, patient engagement in activity, reduced agitation and distress, reduced use of antipsychotics
White, 2016 [12]	UK	Published paper	Management of behavioural and psychological symptoms of dementia in hospitals	Longitudinal cohort study	BEHAVE-AD scale Non-participant Observation Medical notes review	Behaviours that challenge and the use of pharmacological and non-pharmacological interventions for behavioural management
Williams, 2011 [51]	UK	Published paper	Development of the Butterfly Scheme	Discussion paper	Staff self-report for use of the scheme	Patient experience, identification and interpretation of behaviours that indicate a need (managing pain and continence),

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						reducing patient distress, patient safety, carer satisfaction
Zieschang, 2010 [52]	Germany	Published paper	Feasibility study of dementia care specialist unit	Feasibility study	Staff survey, validated tools	Patient function, patient mobility, behaviours that challenge, length of stay, falls, use of restraints, use of antipsychotics